

Bony Lake DNR Lake Protection - Grant Awarded July 2007

Project Partners:

- Bony Lake Residents-Grant Oversight Committee
- WI DNR
- Bayfield County LWCD
- Sigurd Olson Environmental Institute-Northland College
- Eau Claire Lakes Conservation Club
- Private Consulting Firms & Local Businesses
- Bayfield County Lakes Forum
- Wisconsin Lakes
- University of Wisconsin Extension



Bony Lake

Lake Facts

- 191-acre spring fed, drainage lake
- Secchi readings 15'-24'
- 48 Property Owners
- Lakeshore is fully developed
- No public access other than navigable outlet channel



Cooperative Effort

Project Structure/Partners Role

- Bony Lake-GOC (8 residents of the lake): Grant manager, point-of-contact, project updates, website, I & E
- Bayfield County LWCD: fiscal agent, technical work, project oversight, I & E
- WI DNR- Project support: tree drops, critical habitat designation & permitting
- SOEI- monitoring & student labor
- Private businesses- logging, landscaping, nurseries, etc.



Project Goals & Objectives

- Restore or conserve a minimum of 50% of the shoreland habitat of Bony Lake
- 2. Improve the littoral zone habitat
- 3. Demonstrate the ecological benefits of shoreline restoration and conservation on targeted wildlife species
- 4. Develop an understanding of the history of the lake



Project Goal 1:

Restore or conserve a minimum of 50% of the shoreland habitat

- Met w/24 property owners to evaluate and develop a shoreline restoration plan
- 10 shoreline restorations have been completed and signed covenant, approx. 2,585' of shoreline
- 14 properties received consultation, restoration plan and implementing on their own

Challenges:

- ✓ Signing a Conservation Covenant
- ✓ Other expenses not covered by grant







More than just shoreline restoration

Stormwater management & erosion control

- Erosion blanket, temporary seed mixes, etc.
- Rain gutters, infiltration pits, berms and rain gardens
- Driveway diversions, water bars, broad-based dips, grading and shaping

Restoration Challenges

- Control of Terrestrial Invasives
- Routine Watering
- Shoreline Characteristics (steep slopes, turf grass, etc.)
- Confining activities to view/access corridors - (dock & boat storage, fire rings, stairway/paths, etc.)



Project Example





Project Example





Project Goal 2:

Improve the Littoral Zone Habitat

<u>Installation of Woody Habitat</u>

- 10 property owners have had tree drops installed along portions of their shoreline
- Totaling approximately 400 trees (5 times the original amount)

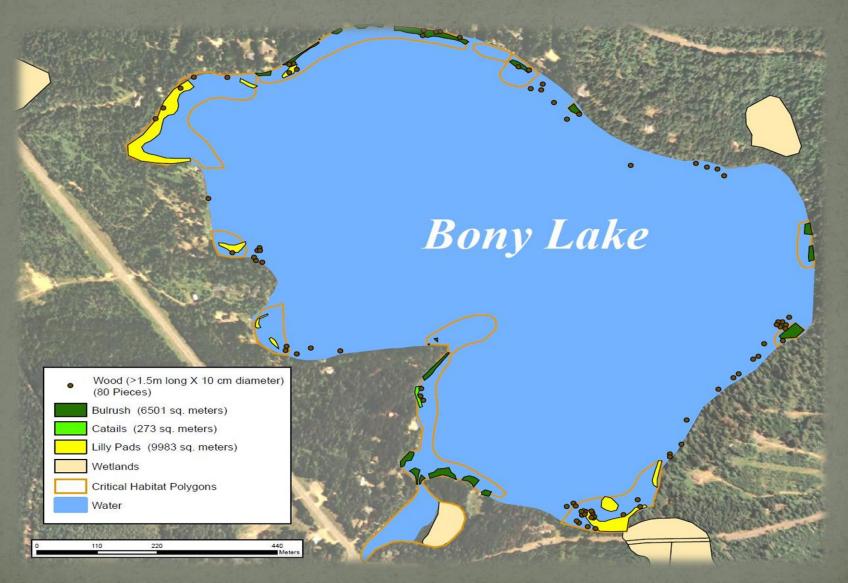


Coarse Woody Habitat (Summer/Winter)





Critical Habitat Designations



Project Goals 3 & 4:

Demonstrating ecological benefits of shoreline restoration and understanding the history of the lake

- Paleolimnological Sediment Core -(Paul Garrison, DNR Limnologist)
- Monitor changes in the numbers and diversity of frogs, birds and macro-invertebrates
- Educational opportunities Bony Lake website, presentations, school groups, *Conserve & Restore* brochure, Pontoon Classroom, etc.



Bony Lake

Accomplishments

- Shoreline Restoration Plans and/or meeting with 24 property owners
- Over 2,500 feet of shoreline under Conservation Covenant
- 10 shoreline restoration projects completed
- 9 clusters of coarse woody habitat, totaling 400 trees along 10 property owner's shoreline
- Bony Lake website:
- Educational Workshops and Awareness: Pontoon classroom, Drummond School ECO day, Conserve & Restore brochure

Challenges

- Staff turnover and time
- Monitoring targeted species
- Scheduling site visits (mainly weekend / summer residents)
- Conservation Covenant (protecting the shoreline & project in perpetuity)
- Administrative: tracking volunteer hours (match/in-kind)
- Permitting

Permitting

Contact WI DNR – Water Mgmt Specialist

- Individual Permit vs. General Permit
- DNR may not allow or permit tree drops
- Pumping from the lake for watering new plantings

Contact Local Zoning Depart

- Shoreland Grading Permit
- Stairway to the Lake Permit
- Shoreland Buffer Standards

Contact Information

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